RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY SYSTEMS BRANCH

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/667,170_
Source: _61PE_
Date Processed by STIC: _2/21/2002_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
 PATENTIN 2.1 e-mail help: **patin21help@uspto.gov** or phone 703-306-4119 (R. Wax)
 PATENTIN 3.0 e-mail help: **patin3help@uspto.gov** or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
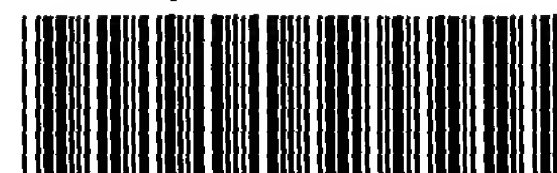   **http://www.uspto.gov/web/offices/pac/checker**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
           Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

OIPE

RAW SEQUENCE LISTING   DATE: 02/21/2002
PATENT APPLICATION: US/09/667,170   TIME: 11:32:43

Input Set : **A:\EP.txt**
Output Set: **N:\CRF3\02212002\I667170.raw**

```
     3 <110> APPLICANT: Reed, Steven G.
     4         Henderson, Robert A.
     5         Lodes, Michael J.
     6         Fling, Steven P.
     7         Mohamath, Raodoh
     8         Algate, Paul A.
     9         Secrist, Heather
    10         Indirias, Carol Yoseph
    11         Benson, Darin R.
    13 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
    14         THE THERAPY AND DIAGNOSIS OF LUNG CANCER
    17 <130> FILE REFERENCE: 210121.475C7
    19 <140> CURRENT APPLICATION NUMBER: US 09/667,170
    20 <141> CURRENT FILING DATE: 2000-09-20
E--> 22 <160> NUMBER OF SEQ ID NOS: 440  OK
    24 <170> SOFTWARE: FastSEQ for Windows Version 3.0
```

Does Not Comply
Corrected Diskette Needed

pp 1-3 (format errors)

ERRORED SEQUENCES

```
    63 <210> SEQ ID NO: 3          706 shown
    64 <211> LENGTH: 697
    65 <212> TYPE: DNA
    66 <213> ORGANISM: Homo sapien
    68 <220> FEATURE:
    69 <221> NAME/KEY: misc_feature
    70 <222> LOCATION: (1)...(697)
    71 <223> OTHER INFORMATION: n = A,T,C or G
    73 <400> SEQUENCE: 3
    74  gtactcagac ccccaacctc gaacagccag aagacaggtt gtctcctggg ccttggacac    60
W--> 75  agccngccag gccattgaag ganaagcaaa gacgaagcga accatctctc tccattgtgg   120
W--> 76  gggccaagta gctgcantan ccttcagtcc cagttgcatt gggttaaaga gctcatacat   180
E--> 77  actatgtgtn aggggtacag aagcttttcc tcatagggca tgagctctg aagcttttcc tcatagggca
E--> 78  tgagctcttn aacttggggt ttctgtggtt cataaagttn ggatatgtat ttttttttcaa   300
E--> 79  atggaanaaa atccgtattt ggcaaaaaga ctccaggggg atgatactgt ccttgccact   360
E--> 80  tacagtccaa angatnttcc ccaaagaata gacatttttt cctctcatca cttctggatg   420
E--> 81  caaaatcttt tattttttc ctttctcgca ccnccccaga ccccttnnag gttnaaccgc   480
E--> 82  ttcccatctc ccccattcca cacgatnttg aattngcann ncgttgntgg tcgggtcccn   540
E--> 83  nccgaaaggg tnttttattt cggggtnctg anttnnnaac cnctnagttg aatccgcggg   600
E--> 84  gcggccnngn gggttnnacc atgntgggga naactncccn ccgcgnttgg aatgccanag   660
E--> 85  ccttgaaant tttctttttgg tcgcccccn gagattc   697
  1494 <210> SEQ ID NO: 59
  1495 <211> LENGTH: 125          117 (p.2)
```

Per Sequence Rules,
FYI: a maximum of 60 bases per line allowed —
this line exceeds maximum
numbering off

RAW SEQUENCE LISTING   DATE: 02/21/2002
PATENT APPLICATION: US/09/667,170   TIME: 11:32:43

        Input Set : **A:\EP.txt**
        Output Set: **N:\CRF3\02212002\I667170.raw**

```
1496 <212> TYPE: PRT
1497 <213> ORGANISM: Homo sapien
1499 <400> SEQUENCE: 59
1500  Gly Thr Ser Phe Ser Lys Asn His Ala Ala Pro Phe Ser Lys Val Leu
1501   1           5               10              15
1502  Thr Phe Tyr Arg Lys Glu Pro Phe Thr Leu Glu Ala Tyr Tyr Ser Ser
1503           20              25              30
1504  Pro Gln Asp Leu Pro Tyr Pro Asp Pro Ala Ile Ala Gln Phe Ser Val
1505          35              40              45
1506  Gln Lys Val Thr Pro Gln Ser Asp Gly Ser Ser Ser Lys Val Lys Val
1507       50              55              60
1508  Lys Val Arg Val Asn Val His Gly Ile Phe Ser Val Ser Ser Ala Ser
1509   65              70              75              80
1510  Leu Val Glu Val His      80
1511  Leu Val Glu Val His Met Glu Thr
```
E--> 1512   85   90   95
```
1513  Asp Gln Asn Ala Lys Glu Glu Glu Lys Met Gln Val Asp Gln Glu Glu
```
E--> 1514   100   105   110
```
1515  Pro His Val Glu Glu Gln Gln Gln Gln Thr Pro Gly Arg
```
E--> 1516   115   120   125
```
5952 <210> SEQ ID NO: 233
5953 <211> LENGTH: 366
5954 <212> TYPE: DNA
5955 <213> ORGANISM: Homo sapien
5957 <220> FEATURE:
5958 <221> NAME/KEY: misc_feature
5959 <222> LOCATION: (1)...(366)
5960 <223> OTHER INFORMATION: n = A,T,C or G
5962 <400> SEQUENCE: 233
5963  cagtaaaaaa ggttatgttt tattaattgc tggacaaccg tgggaaaaca aataagcaat    60
```
W--> 5964 tgacaccacc aaattcttat tacattcaan ataaaanatt tattcacacc acaaaaagat   120
```
5965  aatcacaaca aaatatacac taacttaaaa aacaaagat tatagtgaca taaaatgtta   180
```
E--> 5966 tattctcttt taaaatgtta 180 ?   180
E--> 5967 tattctcttt tacataaatt tctattcatg 240 ?   240
E--> 5968 ananaataac aaatattaaa atacagtgat agtttgcatt tcttctatag aatgaacata   300
E--> 5969 gacataaccc tgaagctttt agtttacagg gagtttccat gaagccacaa actaaactaa   360
E--> 5970 ttatca   366
```
7724 <210> SEQ ID NO: 329
7725 <211> LENGTH: 463
7726 <212> TYPE: DNA
7727 <213> ORGANISM: Homo sapien
7729 <220> FEATURE:
7730 <221> NAME/KEY: misc_feature
7731 <222> LOCATION: (1)...(463)
7732 <223> OTHER INFORMATION: n222> (1)...(463)
7733 <223> OTHER INFORMATION: n9
7734      caagttgcac attttaattt acaattttta ccaataaaaa ggattagttt acaaaaaggg    60
7735      aagtccttta tacaaaataa ggacaatttg taaaganaat ccactgtcat gttttgcctt   120
7736      gtcaagtcaa aactcaaata gcttgttttg gtaaaattat tccagaaaca taatccagac   180
```

[Handwritten annotations: "What is this?" (circling lines 1508–1516), "356" next to LENGTH 366 which is circled, "180 ? already 180 above" (pointing to line 5966), "?" next to 240 (line 5967), "What is this?" (circling lines 7731–7733), "<400> 329" and "↑ ↑ mandatory" (pointing to lines 7732–7733)]

```
W--> 7737       aaaatcaata acgtcatcag cttcctaacc atgtttaana ggaataactt catgaacatt 240
W--> 7738       ttgccctgaa ctgaanagtt ctaaatactt gtaaaccttt aggaaaaaat gactgctcgc 300
W--> 7739       aggcagcttg actggtaaga gggtacacca nagactccgg gtcactcact gtcagaatat 360
W--> 7740       tcttatacat acaatgagtc tccacgcctg tacaatgagt gtcgtgcaac ataattggag 420
W--> 7741       taatggcctc taaaatttta caagtaaact ttattgnggc ccc 463
E--> 7743       <400> SEQUENCE:
E--> 7743       ignore
E--> 7743       <210> SEQ ID NO: 330
     8667       <210> SEQ ID NO: 384
     8668       <211> LENGTH: (491) 486
     8669       <212> TYPE: DNA
     8670       <213> ORGANISM: Homo sapien
     8672       <400> SEQUENCE: 384
     8673       gagcctaatc tcaggtggtc cacccgagac cccttgagca ccaaccctag tccccgcgc        60
     8674       ggcccccttat tcgctccgac aaggtacaaa aaggctctgg acggcggcgt ggtaggagga      120
     8675       cgggagcggg ggcgggaagt tccctgaagg agcgagacag ggagggacag ggcagaggag      180
     8676       gagaggaagg cgatgcgacg gacaggcgca cccgctcagg ctgactctcg ggggcgaggt      240
     8677       cgagccaggg gcggctgccc tggggcgcag gcgacgctgt ctcaacctcc acctcgcggc      300
E--> 8678       ggaacccgag gacaggagcc tcag(300)? already shown above
E--> 8679       ggaacccgag gacaggagcc tcagactcgcc    (360)?
E--> 8680       aaactgcagg cacaagtgcg cattggtggg aaaggaactg ctcgcagaaa gaagaaggtg      420
E--> 8681       gttcatagaa cagccacagc agatgacaaa aaacttcagt tctccttaaa gaagttaggg      480
E--> 8682       gtaaacaata t                                                          491
```

format errors

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/667,170

DATE: 02/21/2002
TIME: 11:32:47

Input Set : **A:\EP.txt**
Output Set: **N:\CRF3\02212002\I667170.raw**

```
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:77 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:249 SEQ:3
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
M:254 Repeated in SeqNo=3
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:85 M:252 E: No. of Seq. differs, <211>LENGTH:Input:697 Found:706 SEQ:3
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
```

VERIFICATION SUMMARY   DATE: 02/21/2002
PATENT APPLICATION: **US/09/667,170**   TIME: 11:32:47

Input Set : **A:\EP.txt**
Output Set: **N:\CRF3\02212002\I667170.raw**

```
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:1512 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:59
M:332 Repeated in SeqNo=59
L:1516 M:252 E: No. of Seq. differs, <211>LENGTH:Input:125 Found:117 SEQ:59
L:5966 M:254 E: No. of Bases conflict, LENGTH:Input:180 Counted:200 SEQ:233
M:254 Repeated in SeqNo=233
L:5970 M:252 E: No. of Seq. differs, <211>LENGTH:Input:366 Found:356 SEQ:233
L:7737 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:7738 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:7739 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:7740 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:7741 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:7743 M:200 E: Mandatory Header Field missing, <400> is required.
L:7743 M:252 E: No. of Seq. differs, <211>LENGTH:Input:463 Found:0 SEQ:329
L:7743 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO:330
L:8678 M:254 E: No. of Bases conflict, LENGTH:Input:300 Counted:324 SEQ:384
M:254 Repeated in SeqNo=384
L:8682 M:252 E: No. of Seq. differs, <211>LENGTH:Input:491 Found:486 SEQ:384
L:22 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (440) Counted (439)
```